

## POST & BID POSITION ANNOUNCEMENT Bargaining Units 1, 4 and 11

1. Reference #: 11-6-419, 11-6-420, 11-6-421 2. Position Number: 911-170-3175-xxx 3. Date of Posting: 06/08/16
4. Classification: Transportation Engineering Technician 5. Salary Range: \$3,410 - \$5,132
6. Pay Differentials That Apply To Position: Pay Differential 271 may apply if/when you meet the Criteria
7. Working Hours Of Position: 7:00am – 3:30 pm
8. District/Division: 11/Environmental Section: Culvert Inventory Geographic Location: San Diego  
(If selected and the position requires a relocation, the Department will NOT provide relocation assistance.) *Determination for relocation will be made by Hiring Supervisor.*

9. **Specific Qualifications and Requisite Skills Required:** (Attach a separate sheet if additional space is needed.)

A. Minimum Qualifications per the Classification Specifications (BU1 & 4 only) (Education and or Experience):

B. Technical & Professional Skills & Abilities:

Knowledge of:

- a. Aptitude to work within a team setting.
- b. Usage and adjustment of precision instruments; procedures, rock climbing equipment, video equipment, GPS survey equipment used in data collection, including conventional and state of the art techniques, and various sizes of motor vehicles according to Chapter 17 of the Caltrans Safety Manual.
- c. Developing sketches to share information found and read and understand contract, as-built and other plans.
- d. Operating computers and the associated software packages.
- e. Field engineering experience in highway maintenance and safety techniques.

Ability to:

- a. Perform field and office inspection and assessment work.
- b. Make precise inspection and assessment measurements.
- c. Make and interpret basic mathematical calculations.
- d. Research, analyze, check, and adjust inspection and assessment data.
- e. Analyze situations accurately and take effective action.
- f. Prepare clear and concise reports and correspondence.
- g. Operate precise inspection and assessment instruments (conventional and state of the art).
- h. Establish and maintain friendly, business-like relations with those contacted in the course of work and communicate effectively.
- i. Act as a reliable and member of a team.
- j. Identify culvert maintenance strategies and the type of culvert defects that lead to structural failure.
- k. Write work descriptions and prepare assessment and evaluation documents and descriptions.

Analytical Requirements:

- a. This position requires the ability to make analytical judgments pertaining to all phases of culvert inspection. The incumbent must have a knowledge of field inspection and assessment, computational skills, and culvert maintenance as a basis for these analytical judgments.
- b. The incumbent must have a background in field work, computational skills, and culvert structural determination as a basis for these analytical judgments.
- c. Ability to assess the culvert at a location to determine the best way to perform the work efficiently.
- d. Analyze the results of inspection and assessment for accuracy and completeness.
- e. Plan for his/her safety and that of the crew and the traveling public.
- f. Review the collected field data for accuracy and completeness, and ensure that administrative documents are prepared completely and accurately.

## C. License and/or Certification Requirements:

Possession of a valid California driver's license is required to operate a State vehicle.

## D. Physical Abilities to Perform Essential Functions:

- a. Transport and operate equipment (of various sizes) up and down roadside slopes weighing up to 50 pounds.
- b. Climbing on slopes and through brush. Use of ropes and climbing harnesses may be required.
- c. Enter areas of confined space according to the Department's Confined Space policies
- d. Examination of both the exterior and interior of culverts (of various sizes).
- e. Ability to lift and transport 50 lbs.
- f. Driving a one ton video inspection van throughout District.
- g. Driving a full size pickup truck throughout the District.
- h. Responsible for maintaining valuable computer, video and other equipment.
- i. Exposure to wildlife, poison oak and various insects likely.
- j. District-wide travel will be required as necessary including overnight stays of 1-3 days.
- k. Required to be tolerant of working within very close range of high-speed traffic, as well as in very noisy conditions.
- l. Weather conditions may vary and work in various weather (hot, cold, wet, etc) may be possible.

## E. Other Departmental Requirements:

## F. Duty Statement/Description of Duties:

Under the general direction of the Senior Transportation Engineer, and the functional lead direction of the Transportation Engineer, the Culvert Inspector is responsible for conducting field inspections of the culvert/drainage systems in San Diego and Imperial Counties. Responsibilities also include assessing physical condition of culverts, recommending maintenance strategies, assisting in data processing, researching existing conditions, operation of technical equipment, quality control and equipment maintenance and interactions with other Departments.

10. Final Date and Time for Receiving Bid: 06/22/16

11. Where to Obtain Bid Form: <http://www.dot.ca.gov/hq/jobs/postandbid/postandbidmain.htm>

## 11. Submit Bid to:

Name: Tricia Girard  
 Address: 4050 Taylor Street, MS 123, San Diego, CA 92110  
 Telephone Number: (619) 688-6950  
 FAX Number: (619) 220-5387  
 E-mail Address: [D11.hiring@dot.ca.gov](mailto:D11.hiring@dot.ca.gov)

12. Window period employee must be available for contact (**Unit 1&4 Only**): From: \_\_\_\_\_ To: \_\_\_\_\_  
 (If selected, you must report in no less than 14 calendar days unless agreed otherwise by current and hiring supervisor and start date must be within 30 calendar days.)

13. Expected Reporting Date To Position (**Unit 11 Only**): One month from posting date  
 (If selected, you must report on the reporting date above unless agreed otherwise by current and hiring supervisor.)